

Abstract

5 A cylinder lock and key combination comprises a lock body, a turnable lock cylinder located inside the lock body, and a set of locking discs located inside the lock cylinder.

10 Each locking disc has a peripheral notch and a key opening and is turnable in the lock body in a first direction by application of turning force to a counter surface bounding the key opening. Each locking disc has an opening position in which its peripheral notch is at the position of an axial slot in the lock cylinder, such that when all the locking discs are in their respective opening positions the peripheral notches form a uniform channel at the position of the axial slot. A locking bar has a locking position in which it prevents turning of the cylinder relative to the lock body and a releasing position in which it is received in the channel formed by the peripheral notches of the locking discs and releases the cylinder for turning relative to the lock body. A key for the lock is insertable in the lock when the locking discs are at an initial position. The key has a set of combination surfaces corresponding respectively to the locking discs, for engaging a counter surface of each locking disc and applying turning force thereto when the key is inserted in the lock and is turned in the first direction, so that the locking discs are turned in the first direction to their respective opening positions. The key opening of at least one locking disc is bounded by at least two discrete counter surfaces, and the combination surface corresponding to that locking disc can be provided selectively with one of at least two combination values, whereby the combination surface engages a selected one of the discrete counter surfaces for applying turning force to the locking disc.